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1635 TECH CENTER 1600/2900



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1600

## RAW SEQUENCE LISTING

DATE: 03/11/2002

PATENT APPLICATION: US/09/691,343

TIME: 14:41:23

Input Set : A:\LEX-0070-USA SEQLIST.txt

Output Set: N:\CRF3\03112002\I691343.raw

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4 <110> APPLICANT: Turner, C. Alexander Jr.
5     Donoho, Gregory
6     Nehls, Michael
7     Hilbun, Erin
8     Zambrowicz, Brian
9     Sands, Arthur T.
11 <120> TITLE OF INVENTION: Novel Human Proteins and Polynucleotides
12     Encoding the Same
14 <130> FILE REFERENCE: LEX-0070-USA
C--> 16 <140> CURRENT APPLICATION NUMBER: US/09/691,343
C--> 16 <141> CURRENT FILING DATE: 2000-10-18
16 <150> PRIOR APPLICATION NUMBER: US 60/160,106
17 <151> PRIOR FILING DATE: 1999-10-18
19 <150> PRIOR APPLICATION NUMBER: US 60/162,547
20 <151> PRIOR FILING DATE: 1999-10-29
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27 <211> LENGTH: 1356
28 <212> TYPE: DNA
29 <213> ORGANISM: homo sapiens
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34 tcccccggcg agagctggca cccctacttg gagccacaag gectgatgta ctgectgcgc      180
35 tgtacctgct cagagggcgc ccatgtgagt tgttaccgcc tccactgtcc gectgtccac      240
36 tgccccagcgc ctgtgacgga gccacagcaa tgetgtccca agtgtgtgga acctcacact      300
37 ccctctggac tccgggcccc accaaagtcc tgccagcaca acgggacccat gtaccaacac      360
38 ggagagatct tcagtgccca tgagctgttc ccctcccgcc tgcccaacca gtgtgtcctc      420
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48 cctggccaca gtgagatcag ttctaccagg tgtcccaagg caccgggccc ggtcctcgtc      1020
49 cacacatcgg tatccccaag cccagacaac ctgcgtcgct ttgccctgga acacgaggcc      1080
50 tcggacttgg tggagatcta cctctggaag ctggttraaag atgaggaaac tgaggctcag      1140
51 agaggtgaag tacctggccc aaggccacac agccagaatc ttccacttga ctcagatcaa      1200
52 gaaagtccagg aagcaagact tccagaaaag ggcacagcac ttccgactgc tcgctggccc      1260

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66 Cys Leu Phe His Gly Lys Arg Tyr Ser Pro Gly Glu Ser Trp His Pro
67 35 40 45
68 Tyr Leu Glu Pro Gln Gly Leu Met Tyr Cys Leu Arg Cys Thr Cys Ser
69 50 55 60
70 Glu Gly Ala His Val Ser Cys Tyr Arg Leu His Cys Pro Pro Val His
71 65 70 75 80
72 Cys Pro Gln Pro Val Thr Glu Pro Gln Gln Cys Cys Pro Lys Cys Val
73 85 90 95
74 Glu Pro His Thr Pro Ser Gly Leu Arg Ala Pro Pro Lys Ser Cys Gln
75 100 105 110
76 His Asn Gly Thr Met Tyr Gln His Gly Glu Ile Phe Ser Ala His Glu
77 115 120 125
78 Leu Phe Pro Ser Arg Leu Pro Asn Gln Cys Val Leu Cys Ser Cys Thr
79 130 135 140
80 Glu Gly Gln Ile Tyr Cys Gly Leu Thr Thr Cys Pro Glu Pro Gly Cys
81 145 150 155 160
82 Pro Ala Pro Leu Pro Leu Pro Asp Ser Cys Cys Gln Ala Cys Lys Asp
83 165 170 175
84 Glu Ala Ser Glu Gln Ser Asp Glu Glu Asp Ser Val Gln Ser Leu His
85 180 185 190
86 Gly Val Arg His Pro Gln Asp Pro Cys Ser Ser Asp Ala Gly Arg Lys
87 195 200 205
88 Arg Gly Pro Gly Thr Pro Ala Pro Thr Gly Leu Ser Ala Pro Leu Ser
89 210 215 220
90 Phe Ile Pro Arg His Phe Arg Pro Lys Gly Ala Gly Ser Thr Thr Val
91 225 230 235 240
92 Lys Ile Val Leu Lys Glu Lys His Lys Lys Ala Cys Val His Gly Gly
93 245 250 255
94 Lys Thr Tyr Ser His Gly Glu Val Trp His Pro Ala Phe Arg Ala Phe
95 260 265 270
96 Gly Pro Leu Pro Cys Ile Leu Cys Thr Cys Glu Asp Gly Arg Gln Asp
97 275 280 285
98 Cys Gln Arg Val Thr Cys Pro Thr Glu Tyr Pro Cys Arg His Pro Glu
99 290 295 300
100 Lys Val Ala Gly Lys Cys Cys Lys Ile Cys Pro Glu Asp Lys Ala Asp
101 305 310 315 320
102 Pro Gly His Ser Glu Ile Ser Ser Thr Arg Cys Pro Lys Ala Pro Gly
103 325 330 335

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104 Arg Val Leu Val His Thr Ser Val Ser Pro Ser Pro Asp Asn Leu Arg
105           340           345           350
106 Arg Phe Ala Leu Glu His Glu Ala Ser Asp Leu Val Glu Ile Tyr Leu
107           355           360           365
108 Trp Lys Leu Val Lys Asp Glu Glu Thr Glu Ala Gln Arg Gly Glu Val
109           370           375           380
110 Pro Gly Pro Arg Pro His Ser Gln Asn Leu Pro Leu Asp Ser Asp Gln
111 385           390           395           400
112 Glu Ser Gln Glu Ala Arg Leu Pro Glu Arg Gly Thr Ala Leu Pro Thr
113           405           410           415
114 Ala Arg Trp Pro Pro Arg Arg Ser Leu Glu Arg Leu Pro Ser Pro Asp
115           420           425           430
116 Pro Gly Ala Glu Gly His Gly Gln Ser Arg Gln Ser Asp Gln Asp Ile
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118 Thr Lys Thr
119           450
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122 <211> LENGTH: 1290
123 <212> TYPE: DNA
124 <213> ORGANISM: homo sapiens
126 <400> SEQUENCE: 3
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129 tcccccgggc agagctggca cccctacttg gagccacaag gcctgatgta ctgcctgcgc      180
130 tgtacctgct cagagggcgc ccatgtgagt tgttaccgcc tccactgtcc gcctgtccac      240
131 tgccccccagc ctgtgacgga gccacagcaa tgctgtccca agtgtgtgga acctcacact      300
132 cctctctggac tccggggcccc accaaagtcc tgccagcaca acgggaccat gtaccaacac      360
133 ggagagatct tcagtgccca tgagctgttc ccctcccgcc tgcccaacca gtgtgtcctc      420
134 tgcagctgca cagagggcca gatctactgc ggccctcaca cctgccccga accaggtgc      480
135 ccagcaccct tccrctgcc agactcctgc tgccargcct gcaaagatga ggcaagtga      540
136 caatcggatg aagaggacag tgtgcagtcg ctccatgggg tgagacatcc tcaggatcca      600
137 tgttccagtg atgctgggag aaagagaggg ccgggcaccc cagccccac tggcctcagc      660
138 gcccctctga gttcatccc tgcaccttc agacccaagg gagcaggcag cacaactgtc      720
139 aagatcgtcc tgaaggagaa acataagaaa gctgtgtgac atggcgggaa gacgtactcc      780
140 cacggggagg tgtggcacc ggcccttcgt gccttcggcc ccttgccctg catcctatgc      840
141 acctgtgagg atggccgcca ggactgccag cgtgtgacct gtcccaccga gtaccctgc      900
142 cgtcaccctc agaaagtggc tgggaagtgc tgcaagattt gccagagga caaagcagac      960
143 cctggccaca gtgagatcag ttctaccagg tgtcccaagg caccgggccc ggtcctcgtc      1020
144 cacacatcgg tatccccaa cccagacaac ctgcgtcgtc ttgccctgga acacgaggcc      1080
145 tgggacttgg tggagatcta cctctggaag ctggtraaag gaatcttcca cttgactcag      1140
146 atcaagaaag tcaggaagca agacttccag aaagaggcac agcacttccg actgctcgtc      1200
147 ggcccccacg aaggtcactg gaacgtcttc ctagcccaga ccctggagct gaaggtcacg      1260
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149                                     1290
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151 <211> LENGTH: 429
152 <212> TYPE: PRT
153 <213> ORGANISM: homo sapiens
155 <400> SEQUENCE: 4
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157 1          5          10          15
158 Leu Trp Phe Pro Leu Asp Ser His Ala Arg Ala Arg Pro Asp Met Phe
159          20          25          30
160 Cys Leu Phe His Gly Lys Arg Tyr Ser Pro Gly Glu Ser Trp His Pro
161          35          40          45
162 Tyr Leu Glu Pro Gln Gly Leu Met Tyr Cys Leu Arg Cys Thr Cys Ser
163          50          55          60
164 Glu Gly Ala His Val Ser Cys Tyr Arg Leu His Cys Pro Pro Val His
165 65          70          75          80
166 Cys Pro Gln Pro Val Thr Glu Pro Gln Gln Cys Cys Pro Lys Cys Val
167          85          90          95
168 Glu Pro His Thr Pro Ser Gly Leu Arg Ala Pro Pro Lys Ser Cys Gln
169          100          105          110
170 His Asn Gly Thr Met Tyr Gln His Gly Glu Ile Phe Ser Ala His Glu
171          115          120          125
172 Leu Phe Pro Ser Arg Leu Pro Asn Gln Cys Val Leu Cys Ser Cys Thr
173          130          135          140
174 Glu Gly Gln Ile Tyr Cys Gly Leu Thr Thr Cys Pro Glu Pro Gly Cys
175 145          150          155          160
176 Pro Ala Pro Leu Pro Leu Pro Asp Ser Cys Cys Gln Ala Cys Lys Asp
177          165          170          175
178 Glu Ala Ser Glu Gln Ser Asp Glu Glu Asp Ser Val Gln Ser Leu His
179          180          185          190
180 Gly Val Arg His Pro Gln Asp Pro Cys Ser Ser Asp Ala Gly Arg Lys
181          195          200          205
182 Arg Gly Pro Gly Thr Pro Ala Pro Thr Gly Leu Ser Ala Pro Leu Ser
183          210          215          220
184 Phe Ile Pro Arg His Phe Arg Pro Lys Gly Ala Gly Ser Thr Thr Val
185 225          230          235          240
186 Lys Ile Val Leu Lys Glu Lys His Lys Lys Ala Cys Val His Gly Gly
187          245          250          255
188 Lys Thr Tyr Ser His Gly Glu Val Trp His Pro Ala Phe Arg Ala Phe
189          260          265          270
190 Gly Pro Leu Pro Cys Ile Leu Cys Thr Cys Glu Asp Gly Arg Gln Asp
191          275          280          285
192 Cys Gln Arg Val Thr Cys Pro Thr Glu Tyr Pro Cys Arg His Pro Glu
193          290          295          300
194 Lys Val Ala Gly Lys Cys Cys Lys Ile Cys Pro Glu Asp Lys Ala Asp
195 305          310          315          320
196 Pro Gly His Ser Glu Ile Ser Ser Thr Arg Cys Pro Lys Ala Pro Gly
197          325          330          335
198 Arg Val Leu Val His Thr Ser Val Ser Pro Ser Pro Asp Asn Leu Arg
199          340          345          350
200 Arg Phe Ala Leu Glu His Glu Ala Ser Asp Leu Val Glu Ile Tyr Leu
201          355          360          365
202 Trp Lys Leu Val Lys Gly Ile Phe His Leu Thr Gln Ile Lys Lys Val
203          370          375          380
204 Arg Lys Gln Asp Phe Gln Lys Glu Ala Gln His Phe Arg Leu Leu Ala
205 385          390          395          400

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206 Gly Pro His Glu Gly His Trp Asn Val Phe Leu Ala Gln Thr Leu Glu
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212 <211> LENGTH: 1792
213 <212> TYPE: DNA
214 <213> ORGANISM: homo sapiens
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219 ctccatctct ccctcctttc ccgcgcttct ctttccacct ttctcttctt cccaccttag 180
220 acctcccttc ctgccctcct ttcttgccca ccgctgcttc ctggcccttc tccgaccccg 240
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222 cttttcgtct cccttcctcc cgactccgct cccggaccag cggcctgacc ctggggaaag 360
223 gatggttccc gaggtgaggg tcctctcctc cttgctggga ctgcgctgc tctggttccc 420
224 cctggactcc cagctcagc cccgccaga catgttctgc cttttccatg ggaagagata 480
225 ctcccccgcc gagagctggc acccctactt ggagccacaa ggccctgatg actgcctgcg 540
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245 gtccagacaa agtgaccaag acataacaaa gacctaacag ttgcagatat gagctgtata 1740
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251 <212> TYPE: DNA
252 <213> ORGANISM: Homo sapiens
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257 gtacaagatc ctccagatga gagaattatt actgtgtcta ctaatggaag tattcacagc 180
258 ccaaggtttc ctcatactta tccaagaaat acggctcttg tatggagatt agtagcagta 240
259 gaggaaaatg tatggatata acttacgttt gatgaaagat ttgggcttga agaccagaa 300

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/691,343

DATE: 03/11/2002

TIME: 14:41:24

Input Set : A:\LEX-0070-USA SEQLIST.txt

Output Set: N:\CRF3\03112002\I691343.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date